

TIKKA -- Appln. No. 09/402,646

of upon which the at least one mobile station can discriminate between speech conveyed to a microphone and background noise in such a manner that the at least one mobile station interprets the noise arriving at the microphone as background noise more easily than before often.

3. (Currently Amended) A method as claimed in claims 1 or 2, ~~characterized in that the wherein~~ traffic load in different parts of the mobile communication system is monitored, and said control signal is transmitted to certain mobile stations or mobile stations in a certain area, when the traffic load in some part of the system exceeds a predetermined limit, whereby said certain mobile stations or mobile stations in a certain area that have received the control signal regulate their parameters related to ~~discontinuous~~ discontinuous transmission in such a manner that ~~they the certain mobile stations or mobile stations in a certain area~~ transmit telecommunication signals to the other parts of the system more seldom than before.

4. (Currently Amended) A mobile communication system comprising:
 a mobile exchange (MSC);
 base stations (~~BTS1, BTS2~~) in a data transmission connection to the mobile exchange;
 and;
 mobile stations (~~MS1 to MS5~~) in a radio connection to the base stations and comprising means for utilizing discontinuous transmission, characterized in that the system comprises
 monitoring means (~~1~~) for monitoring the load in different parts of the system;
 control means (~~BTS1, BTS2~~) responsive to the monitoring means for transmitting, via a radio path, a control signal (~~CNT~~) to certain mobile stations (~~MS1 to MS5~~) or mobile stations in a certain area, when the monitoring means (~~1~~) ~~indicate~~ indicates that the traffic load in some part (~~1-2~~) of the system exceeds a predetermined limit; and;
mobile stations in radio connection to the base stations, said mobile stations comprising means for utilizing discontinuous transmission; and
mobile stations (MS1 to MS5) comprising regulation means (5) for regulating their parameters of the mobile stations related to discontinuous transmission in response to receiving the control signal in such a manner that said mobile stations transmit telecommunication signals to the other parts of the system more seldom or more often.

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5. (Currently Amended) A mobile communication system as claimed in claim 4, characterized in that wherein the monitoring means ~~(1)~~ is arranged to monitor the an amount of the free traffic capacity of the data transmission connection ~~(L1, L2)~~ between at least one base station ~~(BTS1)~~ and mobile exchange ~~(MSC)~~ belonging to the system, whereby the control means ~~(BTS1)~~ is arranged to transmit said control signal (CNT) to all those mobile stations ~~(MS1 to MS3)~~ from which a traffic connection is in progress via said at least one base station, when the control means ~~indicate~~ indicates that the free traffic capacity is below ~~the~~ a predetermined limit value.

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6. (Currently Amended) A mobile communication system as claimed in claim 5, characterized in that wherein said data transmission connection ~~(L1, L2)~~ between the base station ~~(BTS1)~~ and the mobile exchange ~~(MSC)~~ is a packet switched data transmission connection.

7. (Currently Amended) A mobile communication system as claimed in claim 4, characterized in that wherein the monitoring means ~~(1)~~ is arranged to monitor the an amount of the free traffic capacity of a certain base station ~~(BTS1)~~, whereby the control means ~~(BTS1)~~ is arranged to transmit said control signal (CNT) to all those mobile stations ~~(BTS1 to BTS3)~~ from which a traffic connection is in progress via said certain base station ~~(BTS1)~~, when the free traffic capacity is below ~~the~~ a predetermined limit value.

8. (Currently Amended) A mobile communication system as claimed in claim 4, characterized in that wherein the monitoring means ~~(1)~~ is arranged to monitor the quality of the traffic channels of a certain base station, whereby the control means ~~are~~ is arranged to transmit said control signal (CNT) to all those mobile stations ~~(MS1 to MS3)~~ from which a traffic connection is in progress via said certain base station, when the quality of the traffic channels is below a predetermined limit.

9. (Currently Amended) A mobile station comprising:
transmission means ~~(TX)~~ and reception means ~~(RX)~~ for receiving and transmitting telecommunication signals via a radio path;
a user interface ~~(3)~~ for receiving voice signals, and;

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control means ~~(TXDTX)~~ for utilizing discontinuous transmission, whereby the control means ~~comprise~~ comprises signal processing means (2) for processing the voice signals received through the user interface by utilizing parameters stored in the mobile station in order to detect speech from the voice signals received through the interface (3), characterized in that the mobile station comprises:

detection means (4) for detecting a predetermined control signal ~~(CNT)~~ received by the reception means via the radio path; and

regulation means (5), responsive to the detection means (4), for changing said parameters utilized in speech detection in such a manner that the signal processing means ~~interpret~~ interprets the voice signals received through the user interface (3) as background noise more seldom or more often ~~than before~~.